

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A cryostorage device ~~(100)~~ comprising:
at least one data storage device, ~~(200)~~ and
at least one sample receptacle device ~~(300)~~ with at least one sample chamber ~~(301, 302, etc.)~~ for the uptake of a suspension sample, the at least one sample chamber ~~(301, 302, etc.)~~ being connected to the at least one data storage device ~~(200)~~ and having an ~~long-stretched~~ elongated, hollow shape that extends from an inlet end ~~(320)~~ over a predetermined length to an outlet end ~~(330)~~, ~~characterized in that~~
wherein the at least one sample chamber ~~(301, 302, etc.)~~ is attached to the at least one data storage device ~~(200)~~ in a flexible and movably hanging manner.
2. (Currently Amended) The cryostorage device according to claim 1, wherein the at least one sample chamber ~~(301, 302, etc.)~~ ~~has the form of~~ is a hollow cylinder, a hollow cone, a pipe, a tube, or a hollow needle.
3. (Currently Amended) The cryostorage device according claim 1 ~~to any of the preceding~~ ~~claims~~, wherein the at least one sample chamber ~~(301, 302, etc.)~~ consists of a flexible, bendable material.
4. (Currently Amended) The cryostorage device according to claim 1 ~~any of the preceding~~ ~~claims~~, wherein the at least one sample chamber ~~(301, 302, etc.)~~ is provided with at least one of a sensor, ~~in particular~~ a temperature sensor, and ~~or~~ cooling surfaces.
5. (Currently Amended) The cryostorage device according to claim 1 ~~any of the preceding~~ ~~claims~~, wherein the at least one data storage device ~~(200)~~ comprises at least one data storage ~~(210)~~ with a housing ~~(310)~~, the housing being connected ~~with which the~~ at least one sample receptacle device ~~(300)~~ is connected.

6. (Currently Amended) The cryostorage device according to claim 5, wherein the at least one data storage device-(200) comprises a multiplicity of data storages-(210, 220, 230, 240) that are attached along the length of the at least one sample chamber-(301, 302, etc.).
7. (Currently Amended) The cryostorage device according to claim 1any of the preceding ~~claims~~, wherein the a cross-sectional dimension of the at least one sample chamber-(301) varies along its a length of the at least one sample chamber, so that at least one sub-chamber-(350) with a cross-sectional dimension that is larger than the cross-sectional dimensions of the inlet and outlet openings-(320, 330) is formed~~provided~~.
8. (Currently Amended) The cryostorage device according to claim 1any of the preceding ~~claims~~, wherein the at least one sample receptacle device-(300) comprises a plurality of sample chambers-(301, 302, etc.) that are connected with one another at their exterior walls, so that an integral, flexible sample chamber block-(340) is formed~~provided~~.
9. (Currently Amended) The cryostorage device according to claim 1any of the preceding ~~claims~~, wherein a labeling device-(600) is provided that comprises at least one of a labeling layer-(610) on the at least one data storage device-(200) and/or labeling elements-(620) that are placed on the at least one sample receptacle device-(300).
10. (Currently Amended) The cryostorage device according to claim 1any of the preceding ~~claims~~, wherein an attachment device-(550) is provided, with which the at least one sample chamber-(301, 302, etc.) is attached to the at least one data storage device-(200).
11. (Currently Amended) The cryostorage device according to claim 12, wherein the attachment device-(550) comprises strips ~~that are~~ arranged individually or as a bundle, each of the strips having a first and a second end with a sample chamber attached to ~~one the first end and the other end attached to the~~ at least one data storage device attached to the second end-(200).
12. (Currently Amended) A method for ~~storing the storage of~~ at least one suspension sample in a low-temperature state, comprising the steps:
[[- uptake of]] uptaking the at least one suspension sample in at least one sample chamber-(301, 302, etc.) of a cryostorage device-(100) according to claim 1any of the

~~preceding claims, and~~

[[~~- transfer of~~]]transferring the at least one suspension sample into a low-temperature state by positioning at least a part of the cryostorage device in a cryo-medium.

13. (Currently Amended) The method according to claim 12, wherein the ~~uptake of the at least one suspension sample in the at least one sample chamber occurs by uptaking~~ comprises dipping the at least one sample chamber ~~(301, 302, etc.)~~ with an inlet end ~~(320)~~ in a sample reservoir ~~(700)~~ and transferring of the suspension sample as a result of a reduced pressure applied at ~~the~~ a corresponding outlet end ~~(330)~~ or of capillary forces.
14. (Currently Amended) The method according to claim 12 ~~or 13~~, wherein data that comprise the identification of the at least one suspension sample, measured data that were obtained from the suspension sample, reference data of reference samples, and ~~or~~ behavior data about properties of the suspension sample ~~over the course of the~~ during storage in the low-temperature state are stored in the at least one data storage device ~~(200)~~.
15. (Currently Amended) The method according to ~~any of the claims~~ claim 12 ~~to 14~~, wherein at least one partial sample is detached from the at least one sample chamber ~~(301, 302, etc.)~~ in the low-temperature state by mechanical separation.
16. (Currently Amended) The method according to claim 15, wherein during the mechanical separation a local heating of the respective sample chamber in ~~the~~ a vicinity of the at least one partial sample that is to be separated or a separation at the attachment device ~~(500)~~ occurs.
17. (Currently Amended) The method according to ~~any of the claims~~ claim 12 ~~to 15~~, wherein at least one of the inlet and ~~or~~ outlet ends ~~(320, 330)~~ of the at least one sample chamber ~~(301, 302, etc.)~~ are ~~is~~ sealed by clamping, plugging, sealing, or a part of the at least one suspension sample.